

Cell 15insert Calibration - July 8, 2010 12:37

Calibration Data

I [kA]	Field [T]	Error [T]
0.1	0.0624	0.00717
2.0	1.1764	0.00036
4.0	2.3578	0.00525
6.0	3.5328	0.00405
8.0	4.7087	0.00348
10.0	5.8841	0.00279
12.0	7.0593	0.00207
14.0	8.2348	0.00211
16.0	9.4105	0.00225
18.0	10.5854	0.00252
20.0	11.7606	0.00338
22.0	12.9359	0.00350
24.0	14.1112	0.00402
26.0	15.2866	0.00438
28.0	16.4617	0.00445
30.0	17.6369	0.00464
32.0	18.8127	0.00438
34.0	19.9878	0.00565
36.0	21.1629	0.00579
38.0	22.3373	0.00635
40.0	23.5118	0.00641
42.0	24.6868	0.00629
44.0	25.8610	0.00636
46.0	27.0360	0.00644
48.0	28.2103	0.00655
50.0	29.3852	0.00600
52.0	30.5586	0.00547
54.0	31.7328	0.00484
56.0	32.9067	0.00388
57.2	33.6100	0.00225

Field Data

Field [T]	I [kA]
0.5	0.84
1.0	1.69
1.5	2.54
2.0	3.39
2.5	4.24
3.0	5.10
3.5	5.95
4.0	6.80
4.5	7.65
5.0	8.50
5.5	9.35
6.0	10.20
6.5	11.05
7.0	11.90
7.5	12.75
8.0	13.60
8.5	14.45
9.0	15.30
9.5	16.15
10.0	17.00
10.5	17.85
11.0	18.71
11.5	19.56
12.0	20.41
12.5	21.26
13.0	22.11
13.5	22.96
14.0	23.81
14.5	24.66
15.0	25.51
15.5	26.36
16.0	27.21
16.5	28.06
17.0	28.92
17.5	29.77
18.0	30.62
18.5	31.47
19.0	32.32
19.5	33.17
20.0	34.02
20.5	34.87
21.0	35.72
21.5	36.57
22.0	37.43
22.5	38.28
23.0	39.13
23.5	39.98
24.0	40.83
24.5	41.68
25.0	42.53
25.5	43.38
26.0	44.24
26.5	45.09
27.0	45.94
27.5	46.79
28.0	47.64
28.5	48.49
29.0	49.35
29.5	50.20
30.0	51.05
30.5	51.90
31.0	52.75
31.5	53.60
32.0	54.46
32.5	55.31
33.0	56.16
33.5	57.01

$$B = 0.58818 * I - 1.83 * 10^{-7} * I^3$$

$$I = -0.00774 + 1.70109 * B + 8.70 * 10^{-7} * B^3$$

